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**THE NORTH AMERICAN GENERA OF CALYPTRATE  
MUSCIDÆ. Paper III.\***

BY C. H. TYLER TOWNSEND.

The following synopsis contains all the genera of the Dexiidæ thus far recognized and described from America north of Panama, except some genera to which species have been wrongly referred, and which are, so far as possible, omitted. Notes on the latter will be found at the end of this paper.

A word may be offered upon the relations existing between the higher groups of Tachinidæ and Dexiidæ. The group Proseninæ occupies, in the Dexiidæ, the same position which the group Hystriciniæ does in the Tachinidæ. It includes robust forms, with the apical cell open and ending a little before the apex of the wing, agreeing in this respect with the above group of Tachinidæ. These forms further agree with each other, and differ from all the other genera in the Dexiidæ, in the character of the proboscis. The genera *Hystrisiphona*, *Hystrichodexia* and *Bathydexia*, approach *Dejeania* and its allies in the character of the spiny macrochætæ.

The present synoptic table is based upon the one given by Mr. van der Wulp for the Central American genera, in the "Biologia Centrali-Americana."

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**Synoptic table of the North American genera of  
DEXIIDÆ.**

- |   |                           |
|---|---------------------------|
| 1. Proboscis elongate, slim, not retractile, usually as long or longer than the dorso-ventral diameter of the head (subfamily Proseninæ)..... | 2.                        |
| Proboscis shorter than head, thick and fleshy, retractile.....  | 13.                       |
| 2. Proboscis slender and rigid, nearly or quite as long as head and thorax together, labella small.....                                       | 3.                        |
| Proboscis but little longer than the head, labella distinct.....  | 7.                        |
| 3. Scutellum and abdomen armed with spines.....   | <b>Hystrisiphona</b> Big. |
| Scutellum and abdomen with the usual macrochætæ.....  | 4.                        |

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4. Sides of face bare .....5.  
Sides of face clothed with short bristles.....**Prorhynchops**\* B. B.
5. Palpi very short, thickened at tip, macrochætæ only marginal.  
**Prosenia** St. F. and Serv.  
Palpi moderately long, not at all or but little thickened at tip; macrochætæ  
usually discal and marginal.....6.
6. Claws of ♂ extraordinarily long.....**Mochlosoma** B. & B.  
Claws of both sexes short.....**Myiomima** B. & B.
7. Abdomen densely covered with spinose macrochætæ .....8.  
Abdomen with regularly arranged macrochætæ.....9.
8. Vibrissæ inserted some distance above oral margin.  
**Hystrichodexia** v. Röd.  
Vibrissæ inserted on oral margin.....**Bathydexia** v. d. W.
9. Eyes descending not more than two-thirds distance to the lateral oral  
margin.....10.  
Eyes descending at least three-fourths of the distance to the lateral oral  
margin.....12.
10. Fourth vein with a stump at its bend .....**Scotiptera** Mcq.  
Fourth vein without stump at bend.....11.
11. Macrochætæ of abdomen discal and marginal.....**Rhynchodexia** Big.  
Macrochætæ of abdomen only marginal.....**Myocera** R. D.
12. Facial ridges parallel; antennæ inserted on a line drawn through middle of  
eyes.....**Tromodesia** Rdi.  
Facial ridges divergent toward oral margin; antennæ inserted somewhat  
above a line drawn through middle of eyes...**Stomatodexia** B. & B.
13. Eyes descending less, or hardly more than two-thirds distance to the lateral  
oral margin.....14.  
Eyes descending nearly or quite to oral margin, the cheeks consequently very  
narrow dorso-ventrally (Thelairinæ) .....33.
14. Apical cell petiolate, or closed in margin (Melanophorinæ)..... 15.  
Apical cell open (Dexiinæ).....18.
15. Hind cross vein nearer to bend of fourth vein than to the small cross-vein,  
or in the middle between the two; cheeks beset with short bristly hairs..16.  
Hind cross-vein nearer to small cross-vein than to bend of fourth vein...17.
16. Fourth vein with a stump at bend.....**Megerlea** R. D.  
Fourth vein without stump at bend, cheeks as wide as diameter of eyes.  
**Megaparia** v. d. W.
17. Sides of face narrow, naked.....**Melanophora** Meig.  
Sides of face broad, clothed with bristles .....**Microchaetina** v. d. W.
18. Face distinctly carinate .....19.  
Face not carinate, or only faintly so .....22.
19. Antennæ nearly as long as the face.....**Camarona** v. d. W.  
Antennæ much shorter than the face .....20.
20. Abdomen wide and stout, short oval, first segment somewhat shortened...21.  
Abdomen conical or elongate oval.....**Dexia** Meig.
21. Sides of face naked.....**Phorostoma** R. D.  
Sides of face hairy.....**Morphomyia** Rdi.

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\* Nothing is said of the character of the proboscis in the description of this genus, but from its close relationship with *Hystriisiphona*, as indicated by Br. and v. Bgst., I infer that it belongs to this group.

22. Antennæ inserted on a line drawn through middle of eyes .....23.  
 Antennæ inserted on or below such line.....24.
23. Arista short-haired; hind cross-vein half way between small cross-vein and bend of fourth vein.....**Acronacantha** v. d. W.  
 Arista distinctly plumose; hind cross-vein nearer to bend of fourth vein than to small cross-vein .....**Dexiosoma** Rdi.
24. Eyes small, less in diameter than width of cheeks.....25.  
 Eyes of usual size, of greater diameter than width of cheeks.....26.
25. Fourth vein with a stump at bend.....**Microphthalma** Mcq.  
 Fourth vein without stump of vein at bend.....**Macrometopa** B. & B.
26. Costa of wings bristly, or at least with a costal spine.....27.  
 Costa of wings without bristles, or costal spine; hind cross-vein nearer to bend of fourth than to small cross-vein.....29.
27. Abdomen elongate, nearly cylindrical, twice as long as thorax; segments of equal length.....**Stenodexia** v. d. W.  
 Abdomen short, stout, first segment somewhat shortened.....28.
28. Sides of face hairy; claws of ♂ elongate.....**Ptilodexia** B. & B.  
 Sides of face naked; claws of both sexes alike, usually short.  
**Sardiocera** B. & B.
29. Abdomen conical or elongate-oval.....30.  
 Abdomen cylindrical or elongate-conical, much longer than the thorax...31.
30. Middle legs of ♂ disproportionately long.....**Cholomyia** Big.  
 Middle legs but little, if at all, longer than the others..**Melaleuca** v. d. W.
31. Apical cell widely open; wings unicolorous.....**Euantha** v. d. W.  
 Apical cell narrowly open; wings unicolorous, nearly hyaline.....32.
32. Eyes bare; anal segment shorter than preceding one.....**Leptoda** v. d. W.  
 Eyes pilose; anal segment very elongate in ♂ .....**Uramyia** R. D.
33. Abdomen cylindrical, very elongate and strikingly attenuated at the base.  
**Cordyligaster** Mcq.  
 Abdomen oval, conical, or subcylindrical, never petiolate.....34.
34. Frontal bristles descending below base of antennæ.....35.  
 Frontal bristles never descending lower than base of antennæ.....36.
35. Antennæ inserted above a line drawn through middle of the eyes.  
**Chaetona** v. d. W.  
 Antennæ inserted on or below a line drawn through the middle of the eyes.  
**Sarcodexia** Towns.
36. Third vein with a row of bristles.....37.  
 Third vein without bristles, except at base.....38.
37. Third antennal joint at least four times as long as second.  
**Thelairoides** v. d. W.  
 Third joint about twice as long as second .... **Thelaira** R. D.
38. Abdomen yellow, with or without black markings.....39.  
 Abdomen black, sometimes partly whitish or cinereous.....40.
39. Apical cell broadly open.....**Xanthodexia** v. d. W.  
 Apical cell narrowly open.....**Calodexia** v. d. W.
40. Curvature of fourth vein arcuate.....**Rhombothyria** v. d. W.  
 Curvature of fourth vein angular.....41.
41. Arista short-hairy.....**Pseudomorinia** v. d. W.  
 Arista distinctly plumose.....42.
42. Eyes bare.....**Morinia** Meig.  
 Eyes pilose.....**Comyops** v. d. W.

## NOTES.

*Illigeria* Rob. Dsv. Myod. 273.—This is apparently the same as the genus *Melanophora*. The differences given by R. D. are totally insufficient. The three North American species referred to this genus by Walker belong, as O. S. observes (Cat. Dipt. N. A. 156), to entirely different genera.

*Theresia* R. D. Myod. 325.—The characterization is too scanty to include this genus in the synopsis. Nothing is said of the venation, proboscis, etc. It is said to be distinguished from *Phorostoma* by the antennæ being longer and reaching to the epistoma, but there is no assurance that it agrees with it in other characters. Br. Bgst. (Musc. Sch. i, 51) indicate its affinity with *Ptilodexia*.

*Homodexia* Big. Bull. Soc. Ent. Fr. 1885, xxvi.—Mr. v. d. Wulp has shown (Biol. C.-A. Dipt. ii, 263-4) that this genus is untenable, since it includes forms which must be referred to various different genera.

*Anthracomysia* Rdi.—The same author points out (Biol. C.-A. D. ii, 264) that Bigot's species referred here is misplaced. It should perhaps be referred to *Calodexia* v. d. W.

*Rhamphina* Big. Bull. Soc. Ent. Fr. 1885, xi.—Shown by v. d. Wulp (Biol. C.-A. Dipt. ii, 225) to be insufficiently separated from *Rhynchodexia* Big., of which it must be considered a synonym.

*Siphoniomyia* Big. Bull. Soc. Ent. Fr. 1885, xii.—The single Mexican species for which Bigot erected this genus is stated by v. d. Wulp to belong to the Tachinid genus *Trichophora* (Biol. C.-A. Dipt. ii, 225).

*Oplisa* Rdi.—Mr. Bigot has referred two Mexican species to this genus. Both belong to different genera. *O. albifacies* Big. may be referred to the Tachinid genus *Anisia* v. d. W.; and *O. nigrifacies* Big. is the same as *Degeeria longipes* v. d. W., which must be known as *D. nigrifacies* Big., the latter name having priority (see v. d. W., Biol. C.-A. Dipt. ii, 264).

*Pyrrhosia* Rdi.—This genus is indicated by Br. & Bgst. (Musc. Schiz. i, 67) as equivalent to *Leskia* R. D. and *Myobia* R. D., Sch., both of which belong to the Tachinidæ. The single Mexican species which Bigot refers here could never be recognized or placed from the two-line description of its author. Mr. v.

- d. Wulp states (Biol. C.-A. Dipt. ii, 264) that the type, examined by him, bears a striking resemblance to the ♀ of *Phasiop-teryx bilimeki* B. & B.
- Megerlea* R. D. Rdi.—A single species from the Rocky Mountains is referred here by Bigot, on the strength of which the genus is included.
- Morphomyia* Rdi.—Included on a species from California referred here by Bigot.
- Sericocera* Mcq. Hist. Nat. ii, 165; Dipt. Exot. ii, 3, 67, pl. vii, fig. 5.—This genus has been divided by Schiner into two Tachinid and three Dexiid genera. The latter are *Mintho*, *Thelaira* and *Melanio*. As nearly as can be judged from the figure and description, *S. pictipennis* Mcq. belongs to *Thelaira*, which is included on this supposition. But the figure shows a short stump at bend of fourth vein, and the macrochaetae are only marginal. It is quite distinct from *Thelairodes* v. d. W., and very probably does not belong to *Thelaira*.
- Phorostoma* R. D., Sch.—Included on authority of Bigot, who refers two species to this genus.
- Myostoma* R. D. Myod. 327.—This genus is insufficiently distinguished from *Phorostoma* R. D. Bigot has referred one species here.

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#### REFERENCES TO DESCRIPTIONS OF GENERA.

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- Hystrisiphona* Bigot, Revue et Mag. Zool. 1859, p. 309 (1859); v. d. W., Biol. C.-A. Dipt. ii, 214.
- Prorhynchops* Brauer and v. Berg., Musc. Schiz. ii, 60, [364.] (1891).
- Prosenia* St. Farg. and Serv., Enc. Méth. x, 500 (1825); Sch., Dipt. Austr. i, 557.
- Mochlosoma* Br. and Bgst. Musc. Schiz. i, 58, [126.] (1889).
- Myiomima* Br. Bgst. Musc. Schiz. i, 51, [119.] (1889).
- Hystrichodexia* v. Röder, Stett. Ent. Zeit. 1886, 266 (1886); v. d. W., Biol. C.-A. Dipt. ii, 218.
- Bathydexia* v. d. Wulp, Biol. C.-A. Dipt. ii, 222 (1891).
- Scotiptera* Macquart, Dipt. Ex. ii, 3, 83 (1843); v. d. W., Biol. C.-A. Dipt. ii, 223.
- Myocera* Rob. Desv. Myod. 328 (1830); v. d. W., Biol. C.-A. Dipt. ii, 236.
- Tromodesia* Rondani, Dipt. Ital. Pr. i, 87 (1856); l. c. v, 144 (1862); v. d. W., Biol. C.-A. Dipt. ii, 237.
- Stomatodexia* Br. Bgst., Musc. Schiz. i, 57, [125.] (1889); v. d. W., Biol. C.-A. Dipt. ii, 238.
- Megerlea* Rob. Desv. Myod. 266 (1830).
- Megaparia* v. d. W., Biol. C.-A. Dipt. ii, 240 (1891).
- Melanophora* Meigen, Illiger's Mag. ii, 279 (1803); Sch., Dipt. Austr. i, 552.

- Microchætina* v. d. W., Biol. C.-A. Dipt. ii, 240 (1891).  
*Camaronia* v. d. W., Biol. C.-A. Dipt. ii, 241 (1891).  
*Dexia* Meig., s. str. Syst. Besch. Europ. Zweifl. Ins. v, 33 (1826); v. d. W., Biol. C.-A. Dipt. ii, 242.  
*Phorostoma* Rob. Desv. Myod. 326 (1830); Sch., Dipt. Austr. i, 561.  
*Morphomyia* Rdi., Dipt. Ital. Pr. i, 82 (1856).  
*Acronacantha* v. d. W., Biol. C.-A. Dipt. ii, 243 (1891).  
*Dexiosoma* Rdi., Dipt. Ital. Prod. i, 85 (1856); v. d. W., Biol. C.-A. Dipt. ii, 244.  
*Microphthalma* Macq., Dipt. Ex. ii, 3, 84 (1843); Sch., Dipt. Austr. i, 565.  
*Macrometopa* Br. Bgst. Musc. Schiz. i, 49, [117,] (1889); v. d. W., Biol. C.-A. Dipt. ii, 245.  
*Stenodexia* v. d. W., Biol. C.-A. Dipt. ii, 246 (1891).  
*Ptilodexia* Br. Bgst. Musc. Schiz. i, 51, [119,] (1889).  
*Sardiocera* Br. Bgst. Musc. Schiz. i, 51, [119,] (1889).  
*Cholomyia* Bigot, Bull. Soc. Ent. Fr. 1884, p. xxxvii (1884); v. d. W., Biol. C.-A. Dipt. ii, 246.  
*Melaleuca* v. d. W., Biol. C.-A. Dipt. ii, 247 (1891).  
*Euantha* v. d. W., Tijdschr. voor Entom. xxviii, 198 (1885); Biol. C.-A. Dipt. ii, 248.  
*Leptoda* v. d. W., Tijdschr. voor Ent. xxviii, 196 (1885); Biol. C.-A. Dipt. ii, 250.  
*Uramyia* Rob. Desv. Myod. 215 (1830); v. d. W., Biol. C.-A. Dipt. ii, 251.  
*Cordyligaster* Macq., Dipt. Ex. ii, 3, 90 (1843); v. d. W., C.-A. Dipt. ii, 252.  
*Chætona* v. d. W., Biol. C.-A. Dipt. ii, 253 (1891).  
*Sarcodexia* Townsend, Jour. Inst. Jamaica, i, 105 (1892).  
*Thelairoides* v. d. W., Biol. C.-A. Dipt. ii, 254 (1891).  
*Thelaira* Rob. Desv. Myod. 214 (1830); Sch., Dipt. Austr. i, 454.  
*Xanthodexia* v. d. W., Biol. C.-A. Dipt. ii, 256 (1891).  
*Calodexia* v. d. W., Biol. C.-A. Dipt. ii, 257 (1891).  
*Rhombothyria* v. d. W., Biol. C.-A. Dipt. ii, 259 (1891).  
*Pseudomorinia* v. d. W., Biol. C.-A. Dipt. ii, 259 (1891).  
*Morinia* Rob. Desv. Myod. 264 (1830); Sch., Dipt. Austr. i, 550; v. d. W., Biol. C.-A. Dipt. ii, 260.  
*Comyops* v. d. W., Biol. C.-A. Dipt. ii, 262 (1891).

### Synonymy.

- ? *Sophia* R. D. pt. Myod. 317, = *Scotiptera* (v. d. W.).  
*Rhamphiniina* Big., Bull. Soc. Ent. Fr. 1885, p. xi, = *Rhynchodexia* (v. d. W.).  
*Oxydexia* Big., Bull. Soc. Ent. Fr. 1885, p. xxxiii, = *Uramyia* (v. d. W.).  
*Illigeria* R. D. Myod. 273, = *Melanophora* (see note).  
*Siphoniomyia* Big., Bull. Soc. Ent. Fr. 1885, xii, = *Trichophora* (Tachinid genus), (v. d. W.).